



Office of Energy Projects Energy Infrastructure Update *For September 2015*

Natural Gas Highlights

- Leaf River Energy received authorization to place into service Compressor No. 6 of its Leaf River Storage Project in Smith County, MS.
- Bobcat Gas Storage received authorization to place into service Cavern No. 5 at its storage site in St. Landry Parish, LA. Cavern No. 5 will provide a working gas capacity of 8 Bcf.
- Trans-Union received authorization under the Commission's prior notice proceeding to construct and operate facilities which will increase the capacity of its existing system in AR and LA by 30 MMcf/d in order to serve El Dorado Chemical Company in Union County, AR.
- Columbia Gulf received authorization to construct, and operate its Cameron Access Project which will provide 800 MMcf/d of bi-directional capacity on its West Lateral Transmission System located in LA to serve markets along the Gulf Coast region.
- Venture Global Calcasieu Pass and TranCameron Pipeline request authorization to construct and operate an LNG export terminal (providing 1,414 MMcf/d of deliverability) in Cameron Parish, LA, and pipeline facilities which would provide 1,900 MMcf/d of capacity to the proposed terminal.
- Cameron LNG requests authorization to construct and operate Trains 4 and 5 at its export terminal currently under construction near the City of Hackberry, in Cameron and Calcasieu Parishes, LA. Trains 4 and 5 would provide 1,411 MMcf/d of export deliverability.
- Columbia Gas requests authorization to construct and operate its SM-80 Project which would allow Columbia Gas to bypass Class 3 areas in Wayne County, WV and allow Columbia Gas to operate its Line SM-80 at the original maximum allowable operating pressure.
- Northern Natural requests authorization to construct and operate its Gaines County Crossover Compressor Project which would provide 210 MMcf/d of capacity to meet customer requirements in Northern Natural's Field Area in TX.
- Atlantic Coast Pipeline requests authorization to construct and operate its Atlantic Coast Pipeline Project that would provide 1,500 MMcf/d of through a new pipeline extending from WV to markets located in VA and NC.
- Dominion request authorization to construct and operate its Supply Header Project which would provide 1,511 MMcf/d of capacity from supply areas in PA and WV to the proposed Atlantic Coast Pipeline in WV.
- Dominion Carolina commenced the Commission's pre-filing process to construct and operate its Transco to Charleston Project which would provide 80 MMcf/d of capacity for shippers with markets in Charleston, Dillon, Lexington, and Marlboro Counties, SC.
- NextEra US commenced the Commission's pre-filing process to construct and operate its Sooner Trails Pipeline Project which would provide 1,200 MMcf/d of capacity from the South Central Oklahoma Oil Province production area to the Bennington and Lamar Hubs in Bryan County, OK and Lamar County, TX.
- Columbia Gas commenced the Commission's pre-filing process to construct and operate its Mountaineer XPress Project which would provide 2,700 MMcf/d of capacity from production areas to markets on Columbia Gas's system, including markets in WV, TCO Pool, and other points.
- Equitrans requests authorization to restate its certificated working gas capacities in four storage fields located in PA from 15.12 Bcf to 11.18 Bcf.
- Total Peaking Services requests authorization to construct and operate facilities necessary to increase the vaporization sendout capacity at its LNG facilities located in Milford, CT from 90 MMcf/d to 105 MMcf/d.
- PennEast Pipeline requests authorization to construct and operate its PennEast Pipeline Project which would provide 1,107 MMcf/d of capacity through a new pipeline extending from Luzerne County, PA to Mercer County, NJ.
- Transwestern requests authorization under the Commission's prior notice proceeding to construct and operate facilities which would provide an additional 22 MMcf/d of capacity on its Panhandle Lateral located in NM and TX.
- Excelerate Liquefaction and Lavaca Bay Pipeline filed to withdrawal their requests to construct and operate an LNG export terminal (1,380 MMcf/d of deliverability) near Port Lavaca-Point Comfort, TX, and pipeline facilities which would have provided 1,454 MMcf/d of capacity to the proposed LNG export terminal.
- Port Dolphin requests the Commission vacate the certificate issued to it to construct and operate the Port Dolphin Pipeline Project located in Manatee County, FL which would provide 1,200 MMcf/d of capacity from the proposed offshore Port Dolphin LNG import terminal.



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Natural Gas Activities in September 2015

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	0			0.0	0.0	0
Certificated	2			830.0	34.1	12,260
Proposed	10			10,230.3	1,244.3	304,651
Storage						
Placed in Service	2	8.0	0.0			4,800
Certificated	0	0.0	0.0			0
Proposed	1	0.0	15.0			0
LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Import/Export)	0	0	0			0
Proposed (Export)	2	11.6	2,825			0

Source: Staff Database

Natural Gas Activities through September 30, 2015 January through September 30, 2014

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through September 30, 2014	15 12			5,230.7 989.4	194.5 92.4	127,925 30,950
Certificated through September 30, 2014	26 24			7,541.0 7,136.6	360.6 237.9	247,078 284,123
Storage						
Placed in Service through September 30, 2014	5 6	11.4 22.25	53 110			4,800 4,800
Certificated through September 30, 2014	2 3	2.7 1.2	0 0			0 2,500
LNG (Import & Export)						
Placed in Service through September 30, 2014	0 0	0 0	0 0			0 0
Certificated (Import/Export) through September 30, 2014	1 4	0 3.4	1,400 4,885			0 0

Source: Staff Database

Hydropower Highlights (nonfederal)

- Minneapolis Leased Housing Associates IV, Limited Partnership was issued an original license for the proposed 0.600 MW A-Mill Artist Lofts Hydroelectric Project No. 14628. The project will be located at the historic Pillsbury "A" Mill on the Mississippi River in the City of Minneapolis, Hennepin County, MN.
- Pepperell Hydro Company, LLC was issued an original license for the existing, unlicensed Pepperell Hydroelectric Project No. 12721. The license authorizes a 0.068 MW increase in capacity, from 2.139 MW to 2.207 MW. The project is located at the Pepperell Paper dam on the Nashua River in the towns of Pepperell and Groton, Middlesex County, MA.



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Hydropower Project Activities in September 2015

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	0	0	0	0	0	0	0	0
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	2	0.668	0	0	0	0	2	0.668
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Placed in Service								
License	0	0	0	0	0	0	0	0
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0

Source: Staff Database

Hydropower Project Activities Year to Date (through August 31, 2015)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	2	5.600	1	240.000	0	0	3	245.600
10-MW Exemption	1	0.192	0	0	0	0	1	0.192
Capacity Amendment	1	0.600	0	0	0	0	1	0.600
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	5	17.918	0	0	0	0	5	17.918
10-MW Exemption	1	0.600	0	0	0	0	1	0.600
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Placed in Service								
License	0	0	1	21.250	0	0	1	21.250
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0

Source: Staff Database



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Electric Generation Highlights

- Ector County Energy Center LLC's 346 MW natural gas-fired Ector County Energy Center in Ector County, TX is online.
- Rattlesnake Wind I LLC's 211 MW CPV Rattlesnake Den Wind I Project in Glasscock County, TX is online. Phase II is expected to come online in 2016.
- Logans Gap Wind LLC's 211 MW Logans Gap Wind I Project in Comanche County, TX is online. The power generated is sold to Walmart under long-term contract.
- Saddleback Ridge Wind LLC's 25.6 MW Saddleback Ridge Wind Phase 2 Expansion Project in Franklin County, ME is online. Phase 1 with 8.5 MW came online in 2014.
- Solar Star California XXXI LLC's 7.5 MW Tequesquite Landfill Solar Project in Riverside County, CA is online. The power generated is sold to Riverside Public Utilities under long-term contract.
- Kinston Davis Farm LLC's 5 MW Kinston Davis Solar Farm Project in Lenoir County, NC is online. The power generated is sold to Duke Energy Progress under long-term contract.
- Indiana Municipal Power Agency's 3 MW Crawfordsville Solar Park Project in Montgomery County, IN is online.
- SolarCity Corp's 1.9 MW Oneida DPW Solar Project in Oneida County, NY is online.
- Bloomberg LP's 1.5 MW JFK Airport Park Solar Project in Queens County, NY is online.
- Granger Energy Services' 3.2 MW Orchard Hill LFG Phase 2 Expansion Project in Berrien County, MI is online. Phase 1 with 3.2 MW came online in 2013.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	September 2015		January – September 2015 Cumulative		January – September 2014 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	1	3	1	30
Natural Gas	2	346	34	2,884	51	5,808
Nuclear	0	0	0	0	10	266
Oil	0	0	6	9	18	94
Water	0	0	18	27	13	210
Wind	3	448	26	2,966	37	2,030
Biomass	2	4	16	205	58	104
Geothermal Steam	0	0	1	45	7	36
Solar	6	20	142	1,137	258	1,928
Waste Heat	0	0	0	0	2	68
Other	0	0	6	0	8	23
Total	13	817	250	7,276	463	10,597

Sources: Data derived from Velocity Suite, ABB Inc., and The C Three Group LLC



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Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	309.90	26.61%
Natural Gas	497.91	42.76%
Nuclear	107.02	9.19%
Oil	45.09	3.87%
Water	100.08	8.59%
Wind	68.83	5.91%
Biomass	16.60	1.43%
Geothermal Steam	3.91	0.34%
Solar	13.18	1.13%
Waste Heat	1.15	0.10%
Other	0.77	0.07%
Total	1,164.44	100.00%

Sources: Data derived from Velocity Suite, ABB Inc., and The C Three Group LLC

Electric Transmission Highlights

- Northern States Power Company has completed the 82 mile, 345 kV North Rochester - North La Crosse Transmission Project in WI. The \$279.6 million project is a part of the interstate CapX2020 Project.

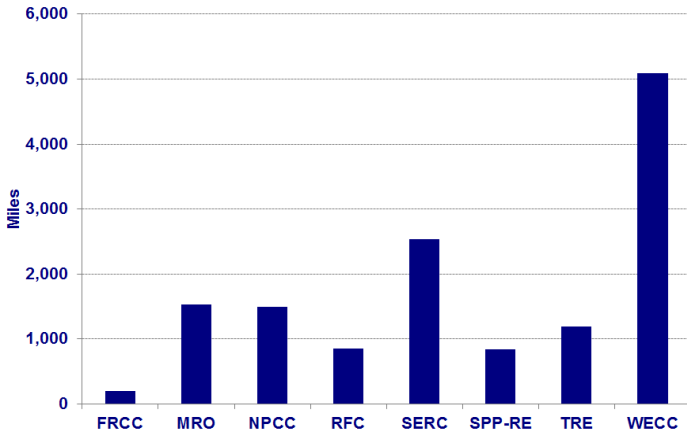
	Transmission Projects Completed				Proposed Transmission Projects In-Service by September 2017	
Voltage (kV)	September 2015	September 2014	January – September 2015 Cumulative	January – December 2014 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0.0	0.0	153.4	1,218.5	2,947.3	5,636.0
345	82.0	202.0	808.7	1,659.8	2,416.8	4,806.6
500	0.0	0.0	256.0	70.0	950.9	3,292.9
Total U.S.	82.0	202.0	1,218.1	2,948.3	6,315.0	13,735.5

Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2015 The C Three Group, LLC

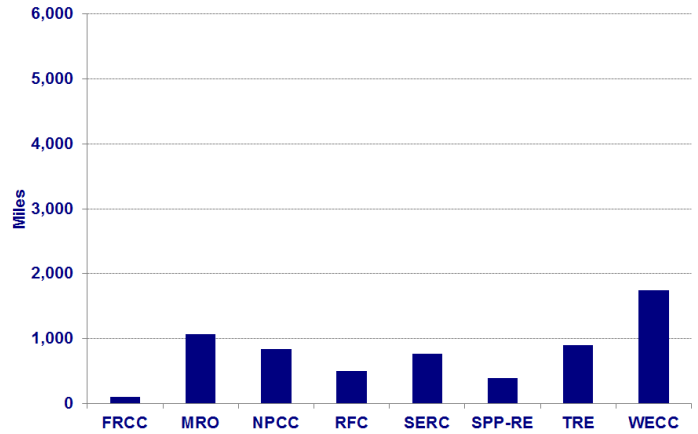


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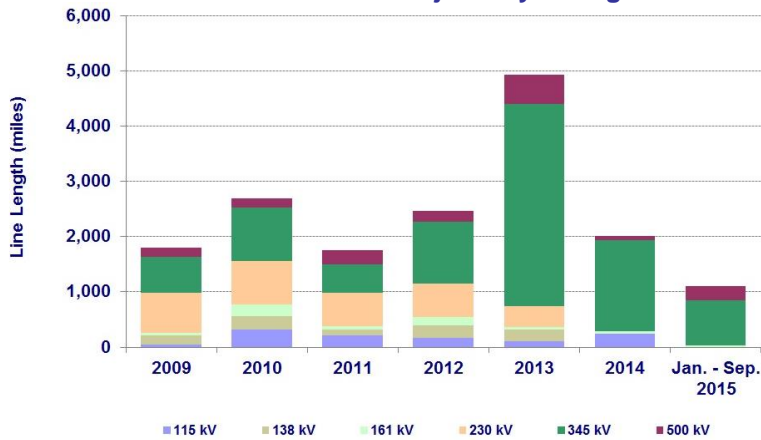
All Transmission Projects with a Proposed
In-Service Date by September 2017



Transmission Projects with a High Probability of
being completed by September 2017



New Transmission Projects by Voltage



Sources: Data derived from Staff Database and U.S. Electric Transmission Projects ©2015 The C Three Group, LLC

Disclaimer: This Report contains analyses, presentations and conclusions that may be based on or derived from the data sources cited, but do not necessarily reflect the positions or recommendations of the data providers.